Bruhat Bengaluru Mahanagara Palike

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

MEASUREMENT SHEET Bill N0:-Final Bill

Name of Work:-Construction Of Additional Class Rooms To Government School At 'B' Sector in Ward No-04

Estimated Cost RS :- 100.00 Lakhs

Agency:-Sri.T.S.Kothanda Raju

Job No: 004921-000029

BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of Work:- Construction Of Additional Class Rooms To Government School At 'B' Sector in Ward No-04

Estimated Cost RS :- 100.00 Lakhs

Agency:-Sri.T.S.Kothanda Raju

MEASUREMENT SHEET Bill N0:-Final Bill

Measurements Taken On:- 25/03/2022

S.No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 4.2.7: Providing and laying in position reinforced cement concrete of design Mix M25 with OPC @ 340kgs, with 20mm anddown size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with super plasticisers @3lts confirming to 189103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, lintles, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications.								
	First Floor:-	Cum							
	Columns Up to Lintel Level :-C1		3	0.60	0.30	2.10	1.13		
	C2		2	0.45	0.30	2.10	0.57		
	C3		5	0.45	0.30	2.10	1.42		
	C4		3	0.45	0.30	2.10	0.85		
	CF1		2	0.60	0.30	2.10	0.76		
	CF2		1	0.60	0.30	2.10	0.38		
			1	0.45	0.30	2.10	0.28		
	CF3		2	0.45	0.30	2.10	0.57		
	CF4		2	0.45	0.30	2.10	0.57		
	Lintel beam:-L/Walls		2	23.90	0.20	0.20	1.91		
			1	7.40	0.20	0.20	0.30		
			1	6.00	0.20	0.20	0.24		
	S/Walls		6	6.00	0.20	0.20	1.44		
			2	5.95	0.20	0.20	0.48		
			1	3.00	0.20	0.20	0.12		
	Partitions:-Toilet Walls		1	3.85	0.10	0.15	0.06		
			3	1.50	0.10	0.15	0.07		
	Head Room		1	4.65	0.15	0.20	0.14		
			1	4.65	0.15	0.20	0.14		
			2	3.20	0.15	0.20	0.19		
	Columns Up to Beam Level:-C1		3	0.60	0.30	0.25	0.14		
	C2		2	0.45	0.30	0.25	0.07		
	C3		5	0.45	0.30	0.25	0.17		
	C4		3	0.45	0.30	0.25	0.10		
	CF1		2	0.60	0.30	0.25	0.09		
	CF2		1	0.60	0.30	0.25	0.05		
			1	0.45	0.30	0.25	0.03		
	CF3		2	0.45	0.30	0.25	0.07		
	CF4		2	0.45	0.30	0.25	0.07		
	Tie beam:-Horizontal Axies,B1-B4		4	12.60	0.30	0.45	6.80		
	B5-B6		2	7.95	0.30	0.45	2.15		
	B7		1	6.45	0.30	0.45	0.87		
	B8		1	9.45	0.30	0.45	1.28		
	B9		4	6.45	0.30	0.45	3.48		
	Vertical Axies,B10		1	2.45	0.30	0.30	0.22		
			1	4.95	0.30	0.30	0.45		
	B11		1	3.75	0.30	0.30	0.34		
			1	1.30	0.30	0.30	0.12		
			2	3.25	0.30	0.30	0.59		
	B12		1	2.45	0.30	0.30	0.22		
			1	4.95	0.30	0.30	0.45		
			1	3.00	0.30	0.30	0.27		
			1	3.75	0.30	0.30	0.34		
			1	1.30	0.30	0.30	0.12		
			2	3.25	0.30	0.30	0.59		
	B13		1	11.75	0.30	0.30	1.06		

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬ.ಬ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

		B14		1	3.00	0.30	0.30	0.27		
				1	1.30	0.30	0.30	0.12		
				4	3.25	0.30	0.30	1.17		
		Roof		1	12.60	8.90	0.15	16.82		
				1	8.70	8.10	0.15	10.57		
				1	4.65	6.30	0.15	4.39		
				1	9.80	1.25	0.15	1.84		
		Columns Up to Parapet Level:-C1		3	0.60	0.30	0.60	0.32		
		C2		2	0.45	0.30	0.60	0.16		
		C3		5	0.45	0.30	0.60	0.41		
		C4		3	0.45	0.30	0.60	0.24		
		CF1		2	0.60	0.30	0.60	0.22		
		CF2		1	0.60	0.30	0.60	0.11		
				1	0.45	0.30	0.60	0.08		
		CF3		2	0.45	0.30	0.60	0.16		
		CF4		2	0.45	0.30	0.60	0.16		
		Staire case 1st flight		1	3.20	1.50	0.15	0.72		
		Landing		1	3.10	1.50	0.15	0.70		
		2nd flight		1	3.25	1.50	0.15	0.73		
		Steps		20	1.50	0.30	0.15	1.35		
		Flat forms		6	3.10	1.00	0.20	3.72		
								75.96		
		Deductions for Columns(Parapet Level) :-C1		3	0.60	0.30	0.75	0.41		
		C2		2	0.45	0.30	0.75	0.20		
		C3		5	0.45	0.30	0.75	0.51		
		C4		3	0.45	0.30	0.75	0.30		
		CF1		2	0.60	0.30	0.75	0.27		
		CF2		1	0.60	0.30	0.75	0.14		
				1	0.45	0.30	0.75	0.10		
		CF3		2	0.45	0.30	0.75	0.20		
		CF4		2	0.45	0.30	0.75	0.20		
		Head Room Portions		1	4.70	3.60	0.15	2.54		
								4.87		
								71.09	6911.44	491339.45
2	Providing and laying in position reinforced cement concrete of design Mix M20 with OPC @ 27.20kgs, with 12mm and down size graded granite metal coarse aggregates @0.05865cum and fine aggregtes @ 0.0391 cum, with super plasticisers @0.2251ts, machine mixed, well compacted for plain chajja of 8.5 ems. average thickness, upto ground floor level, including cost of all materials, labour, HOM finishing, curing, complete but excluding cost of reinforcement as per specifications.									
	First Floor:-	Sqm								
	W		10	1.50	0.45		6.75			
	V		1	3.90	0.45		1.76			
							8.51	568.22	4832.71	
3	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and I or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications and Lift charges for steel of all diameters for additional floors over ground floor per floor height of 3.5 m. or part there of cost of labour, complete as per specifications.- do-TMT bars Fe 500									
	First Floor:-	Tonne								
	Quantity Vide As Per Pre Measurement are prepared in E-Bill						9.14			
							9.14	99036.42	905193.34	
4	Lift charges for steel of all diameters for additional floors over ground floor per floor height of 3.5m. Or part there of cost of labour complete as per specifications,specification									
	First Floor	Tonne								
	Quantity Vide As Per Item No-3						9.14			
							9.14	847.42	7745.42	
5	Providing and removing centering, shuttering, strutting,propping etc., and removal of form work for columns, pillars, postand struts, square I rectangular/ polygon in plan including cost of allmaterials, labour complete as per specifications.									
	First Floor	Sqm								

C&E

ಅಧಿಕಾರಿಗಳು ಕಾರ್ಯನಿರ್ವಹಿಸುತ್ತಿರುವ ಅಧಿಕಾರಿಗಳ ಸಂಖ್ಯೆ ಮತ್ತು ಹುದ್ದೆಗಳ ಸಂಪೂರ್ಣ ವಿವರ ಸಲ್ಲಿಸುವಂತೆ ಆದೇಶ ಹೊರಡಿಸಿದ್ದರು-10

11	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications.								
	First Floor:-	Sqm							
	L/Walls		2	23.90		2.25	107.55		
			1	7.40		2.25	16.65		
			1	6.00		2.25	13.50		
	S/Walls		6	6.00		2.25	81.00		
			2	5.95		2.25	26.78		
			1	3.00		2.25	6.75		
							252.23		
	Deductions:-OD		1	1.35		2.10	2.84		
	D		1	1.05		2.10	8.82		
	W		11	1.20		1.20	15.84		
	Open		1	3.00		1.80	5.40		
	V		1	3.00		1.60	4.80		
	Staircase Ventilators		2	1.80		0.80	2.88		
			2	1.05		0.80	1.68		
	V1		1	2.40		0.45	1.08		
	V2		3	0.60		0.60	1.08		
	Columns Up to Lintel Level:-C1		3	0.60		2.10	3.78		
	C2		2	0.45		2.10	1.89		
	C3		5	0.45		2.10	4.73		
	C4		2	0.45		2.10	2.84		
	CF1		2	0.60		2.10	2.52		
	CF2		1	0.60		2.10	1.26		
			1	0.45		2.10	0.95		
	CF3		2	0.45		2.10	1.89		
	CF4		2	0.45		2.10	1.89		
	Lintel beam:-L/Walls		2	23.90		0.20	9.56		
			1	7.40		0.20	1.48		
			1	6.45		0.20	1.29		
	S/Walls		6	6.00		0.20	7.20		
			2	5.95		0.20	2.38		
			1	3.00		0.20	0.60		
	Columns Up to Beam Level:-C1		3	0.60		0.25	0.45		
	C2		2	0.45		0.25	0.23		
	C3		5	0.45		0.25	0.56		
	C4		2	0.45		0.25	0.34		
	CF1		2	0.60		0.25	0.30		
	CF2		1	0.60		0.25	0.15		
			1	0.45		0.25	0.11		
	CF3		2	0.45		0.25	0.23		
	CF4		2	0.45		0.25	0.23		
	Tie beam:-L/Walls		2	23.90		0.30	14.34		
			1	7.40		0.30	2.22		
			1	6.45		0.30	1.94		
	S/Walls		7	6.00		0.30	12.60		
			2	5.95		0.30	3.57		
			2	3.00		0.30	1.80		
							127.71		
							124.51	1126.58	140273.29
12	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications.								
	A)Ground floor:-	Sqm							
	Flagging Concrete:-Front		1	24.60		0.80	19.68		
	Right		1	14.40		0.80	11.52		
	Back		1	26.20		0.80	20.96		
	Left		1	6.30		0.80	5.04		
			1	9.00		0.80	7.20		
							64.40	1046.82	67415.21

C&R
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ಯಲಹಂಕ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

13	**B)First floor:-**									
		Sqm								
	Parapet Walls:-L/Walls		1	23.90		0.60	14.34			
			1	8.90		0.60	5.34			
			1	15.00		0.60	9.00			
	S/Walls		1	12.20		0.60	7.32			
			1	4.80		0.60	2.88			
			1	1.50		0.60	0.90			
			1	6.00		0.60	3.60			
	Head Room		1	4.65		1.70	7.91			
			1	4.65		1.40	6.51			
			2	3.20		1.55	9.92			
							67.72			
	Head Room Door(-)		1	0.90		1.55	1.40			
							66.32			
					Limited To Schedule'B' Qty		58.52	1083.53	63408.18	
14	Fixing of Door frames in an existing opening including embedding frame in floor and walls after cutting masonry for embedding holdfasts including providing & fixing 3/4 of MS hold fasts of size 200x20x3mm for each side and fixed to the frame and embeded with PCC 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size), painting two coats of coal tar to sides of frames, making good the damages to walls & floor as required and disposal of debris including cost of materials, labour, HOM of machineries complete as per specifications all as per the drawing and as per the directions of the Engineer-in-charge of the work.									
	First Floor: -	No.s								
	D		3				3.00			
	D1		1				1.00			
	:-		1				1.00			
							5.00	1547.57	7737.85	
15	Providing wood frames of doors, windows, clerestorywindows, ventilators and other frames, wrought, framed or assembledincluding making plaster groves (excluding cost of cement concrete andside clamps), but including cost of materials, labour, HOM complete asper specifications.White Sal wood frames.									
	First Floor: -	Cum								
	D	2	3	0.12	0.075	2.10	0.11			
		2	3	0.12	0.075	1.35	0.07			
	D1	2	1	0.12	0.075	2.10	0.04			
		2	1	0.12	0.075	1.35	0.02			
	:-	2	1	0.12	0.075	2.10	0.04			
		2	1	0.12	0.075	1.35	0.02			
							0.31	68596.04	21299.07	
16	Providing and fixing in position fully panelled wood shutters for doors, styles and rails of 30mm thick with bottom and lock rails 180mm wide top rail and styles 1 OOmm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM complete as per specifications (excluding cost of fixtures)									
	First Floor: -	Sqm								
	D		3	1.05		2.10	6.62			
	D1		1	0.90		2.10	1.89			
	:-		1	0.90		2.10	1.89			
							10.40	4922.54	51169.80	
17	KSRB 15-3: Providing 12mm thick plain plastering in single coat to internal ceiling & RC surfaces in cement mortar 1:3 (1 cement : 4 fine sand) including providing & removing necessary scaffolding, rounding of corners wherever required, smooth rendering with lime, curing etc. including cost of all materials, formwork, labour charges, HOM of Machineries, loading, unloading ,with all lead and lifts etc., compelte & as per specification and as directed by Engineer.									
	First Floor: -	Sqm								
	Cealing:-Class Room1		1	5.98	6.95		41.35			
	Class Room2		1	6.00	6.95		41.70			
	Corridor		1	6.25	1.25		7.81			
	Class Room3		1	6.00	7.55		45.30			
	Borewell Room		1	6.00	3.05		18.30			
	Toilet Room		1	3.85	6.00		12.00			
	Front Corridor		1	8.95	1.50		13.43			
			1	6.05	1.50		9.08			

	Staire case 1st flight		1	3.05	1.35		4.12		
	Landing		1	3.20	1.65		5.28		
	2nd flight		1	3.10	1.50		4.65		
			1	3.25	1.65		5.36		
							219.48	272.53	59813.52
18	KSRB 15-3: Providing 15mm thick plain plastering in single coat to internal masonry surfaces, in cement mortar 1:4 (1 cement : 4 fine sand) including providing & removing necessary scaffolding, rounding of corners wherever required, smooth rendering with lime, curing etc.including cost of all materials, formwork, labour charges, HOM of Machineries, loading, unloading ,with all lead and lifts etc., compelte & as per specification and as directed by Engineer.								
	First Floor: -	Sqm							
	Inside Plastering:-Class Room1		2	5.95		3.00	35.70		
			2	6.95		3.00	41.70		
	Class Room2		2	6.00		3.00	36.00		
			2	6.95		3.00	41.70		
	Corridor		2	6.25		3.00	37.50		
			1	1.25		3.00	3.75		
	Class Room3		2	6.00		3.00	36.00		
			2	7.55		3.00	45.30		
	Toilet Block		2	3.85		3.00	23.10		
			2	6.00		3.00	36.00		
	Borewell Block		2	3.05		3.00	18.30		
			2	6.00		3.00	36.00		
	Staire case		2	5.60		3.00	33.60		
			1	3.00		3.00	9.00		
	Front Corridor		1	8.95		3.00	26.85		
			1	6.05		3.00	18.15		
			1	3.05		3.00	9.15		
	Partition Walls Toilet Block		4	1.50		2.10	12.60		
			2	3.85		2.10	16.17		
							516.57		
	(-)Deductions:-D	3	2	1.05		2.10	13.23		
	D1	1	2	0.90		2.10	3.78		
	D2	3	2	0.75		2.10	9.45		
	W	10	1	1.20		1.20	14.40		
		1	2	1.20		1.20	2.88		
	Open	1	1	3.05		1.80	5.49		
		1	2	3.05		1.60	9.76		
	V1	1	2	2.40		0.45	2.16		
	V2	3	1	0.60		0.60	1.08		
	V	2	1	1.85		0.80	2.96		
		2	1	1.05		0.80	1.68		
							66.87		
							449.70	256.67	115424.60
19	KSRB15-7 : Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications.								
	A)Ground Floor:-	Sqm							
	Ceaiing:-Class Room1		1	5.95	7.00		41.65		
	Class Room2		1	6.05	7.00		42.35		
	Corridor		1	6.05	1.30		7.87		
	Toilet Block		1	6.05	3.75		22.69		
	Borewell Corridor		1	6.05	3.00		18.15		
	Anganawadi Hall		1	6.05	4.95		29.95		
	Kitchen,store & Toilet		1	6.05	2.45		14.82		
	Staire case		1	6.05	2.95		17.85		
	Front Corridor		1	10.25	1.50		15.38		
			1	4.65	1.50		6.98		
	Staire case 1st flight		1	4.25	1.50		6.38		
	Landing		1	3.00	1.50		4.50		
	2nd flight		1	1.78	1.50		2.67		
	Inside Plastering:-Class Room1		2	5.95		3.00	35.70		
			2	7.00		3.00	42.00		
	Class Room2		2	6.05		3.00	36.30		
			2	7.00		3.00	42.00		
	Corridor		2	6.05		3.00	36.30		
	Toilet Block		2	6.05		0.80	9.68		
			2	3.75		0.80	6.00		

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಜ.ಜ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

								66.87		
								669.18	42.55	28473.40
21	KSRB15-3 : Providing 18mm thick cement plaster in single coat with cement mortar 1:6 to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curingcomplete as per specification									
	First Floor: -	Sqm								
	External Walls:-L/Walls		1	23.90		3.20	76.48			
			1	7.40		3.20	23.68			
			1	5.95		3.20	19.04			
	S/walls		1	12.60		3.20	40.32			
			1	9.60		3.20	30.72			
			1	3.20		0.40	1.28			
			1	8.95		0.40	3.58			
			1	4.65		0.40	1.86			
	Parapet Walls:-L/Walls		2	23.90		0.80	38.24			
			2	8.90		0.80	14.24			
			2	15.00		0.80	24.00			
	S/Walls		2	12.20		0.80	19.52			
			2	4.80		0.80	7.68			
			2	1.50		0.80	2.40			
			2	6.00		0.80	9.60			
	Head Room		1	4.65		1.90	8.84			
			1	4.65		1.60	7.44			
			2	3.20		1.75	11.20			
	chejja:-w		20	1.50	0.45		13.50			
	v		2	3.90	0.45		3.51			
							357.15			
	(-)Deductions.-W	0.5	10	1.20		1.20	7.20			
	Open	1	1	3.09		1.80	5.49			
	V2	1	1	0.60		0.60	0.36			
	Head Room Door	1	1	0.90		1.55	1.40			
	V	1	2	1.85		0.80	2.96			
		1	2	1.05		0.80	1.68			
							19.09			
							338.04	283.86	95956.03	
22	Providing and laying flooring using prepolished, water cut/ gang saw 19mm thick granite laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to match shade of granite slabs include laying POP on finished surface,including cost of materials, labour charges, etc , complete as per specifications									
	A)Ground Floor: -	Sqm								
	Class Room1		1	6.95	6.00		41.70			
	Class Room2		1	6.96	5.90		41.04			
	Corridor		1	6.25	1.25		7.81			
	Side Walls		1	6.26		2.10	13.15			
			1	1.25		2.10	2.63			
	Borewell Duct		1	6.20	3.05		18.91			
			2	6.20		2.10	26.04			
			1	3.05		2.10	6.41			
	Anganawadi Building		1	4.95	6.00		29.70			
	Staire case		1	5.60	3.10		17.36			
	Front Corridor		1	6.00	1.50		9.00			
			1	8.85	1.50		13.28			
			1	3.05	1.35		4.12			
	Toilet Block:-Gent		1	1.30	1.40		1.82			
			1	3.80	0.90		3.42			
			1	1.10	1.00		1.10			
			1	1.10	0.90		0.99			
	Lady		1	1.25	1.40		1.75			
			1	3.80	0.90		3.42			
			1	1.00	1.10		1.10			
			1	1.00	1.10		1.10			
	Toilet Block Alround Walls									
	Toilet Block:-Gent		2	1.30		2.10	5.46			
			2	3.80		2.10	15.96			
			2	0.90		2.10	3.78			

24	Providing skirting, dadoing, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, completeas per specifications.								
	Ground Floor	Sqm							
	Toilet Block:-Store		2	2.40		2.10	10.08		
			2	1.95		2.10	8.19		
	Kitchen		2	2.40		2.10	10.08		
			2	2.45		2.10	10.29		
							38.64		
	Deductions:-Store		1	16.00		1.50	24.00		
	D1		3	0.75		2.10	4.73		
							28.73		
							9.92	1442.04	14297.83
25	KSRB 14.9-1:Providing and laying M-15 Cement concrete flooring,50mm thick with metallic concrete hardner topping,under layer of 35mm thick M-15 cement concrete using broken granite metal of 20mm and down size,and top layer 50mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix :2 granite metal 10mm nominal size) by volume with which metallic hardeing compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt),including finishing cost of materials labour,curing complete as per specifications								
	A)Ground Floor:-	Sqm							
	Class Room1		1	6.95	6.00		41.70		
	Class Room2		1	6.95	5.90		41.01		
	Corridor		1	6.25	1.25		7.81		
	Borewell Duct		1	6.20	3.05		18.91		
	Anganawadi Building		1	4.95	6.00		29.70		
	Staire case		1	5.60	3.10		17.36		
	Front Corridor		1	6.00	1.50		9.00		
			1	8.85	1.50		13.28		
			1	3.05	1.35		4.12		
	Toilet Block:-Gent		1	1.30	1.40		1.82		
			1	3.80	0.90		3.42		
			1	1.10	1.00		1.10		
			1	1.10	0.90		0.99		
	Lady		1	1.25	1.40		1.75		
			1	3.80	0.90		3.42		
			1	1.00	1.10		1.10		
			1	1.00	1.10		1.10		
	Office Toilet:-Men		1	1.70	1.30		2.21		
	Women		1	1.80	1.30		2.34		
	Toilet:-		1	2.40	1.25		3.00		
	Flagging Concrete Portion:-Front		1	9.10	4.65		42.32		
			1	6.00	2.70		16.20		
	Staire case:- Landing		1	3.00	1.50		4.50		
	Threads		20	1.50	0.25		7.50		
	Flagging Concrete:-Front		1	17.40	0.90		15.66		
	Right		1	9.90	1.00		9.90		
	Back		1	26.20	0.90		23.58		
	Left		1	6.30	1.35		8.51		
							333.29	714.87	238259.02
26	**B)First Floor: -**	Sqm							
	Class Room1		1	5.95	6.95		41.35		
	Class Room2		1	6.05	6.95		42.05		
	Corridor		1	6.25	1.25		7.81		
	Class Room3		1	7.55	6.00		45.30		
	Toilet Block		1	3.85	4.30		16.56		
	Toilet Rooms		3	1.20	1.50		5.40		
	Front Corridor		1	6.05	1.50		9.08		
			1	8.95	1.50		13.43		
			1	3.05	1.35		4.12		
	Staire case:- Landing		1	3.00	1.50		4.50		
	Threads		20	1.50	0.30		9.00		
	Terrace		1	6.00	4.30		25.80		
							224.39	716.97	160877.31

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ಶಿವಮೊಗ್ಗ-06

	V2	1	1	0.45		0.45	0.20			
	V	1	2	1.85		0.80	2.96			
		1	2	1.05		0.80	1.68			
							64.92			
							627.11			
			Limited To Schedule 'B' Qty				600.03		88.37	53024.65
30	**B)First Floor: -**									
		Sqm								
	Class Room1		1	5.95	7.00		41.65			
	Class Room2		1	6.05	7.00		42.35			
	Corridor		1	6.05	1.30		7.87			
	Class Room3		1	6.05	7.00		42.35			
	Class Room4		1	6.05	7.40		44.77			
	Staire case		1	6.05	2.95		17.85			
	Front Corridor		1	9.05	1.50		13.58			
			1	4.65	1.50		6.98			
	Staire case 1st flight		1	4.25	1.50		6.38			
	Landing		1	3.00	1.50		4.50			
	2nd flight		1	1.75	1.50		2.63			
	Inside Plastering:-Class Room1		2	5.95		3.00	35.70			
			2	6.95		3.00	41.70			
	Class Room2		2	6.00		3.00	36.00			
			2	6.95		3.00	41.70			
	Corridor		2	6.05		3.00	36.30			
			2	1.30		3.00	7.80			
	Class Room3		2	6.05		3.00	36.30			
			2	7.00		3.00	42.00			
	Class Room4		2	6.05		3.00	36.30			
			2	7.00		3.00	42.00			
	Staire case		2	6.05		6.00	72.60			
			2	2.95		6.00	35.40			
	Front Corridor		1	9.05		3.00	27.15			
			1	4.65		3.00	13.95			
							735.78			
	(-)Deductions:-OD	1	2	1.35		2.10	5.67			
		1	2	1.50		2.10	6.30			
	D	5	2	1.05		2.10	22.05			
	W1	13	1	1.20		1.20	18.72			
							52.74			
							683.04		94.66	64656.80
31	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.									
	A)Groumd Floor:-	Sqm								
	External Walls:-L/Walls		1	23.90		3.40	81.26			
			1	7.40		3.40	25.16			
			1	6.45		3.40	21.93			
			1	8.55		0.40	3.42			
	S/walls		1	12.60		3.40	42.84			
			1	4.15		0.40	1.66			
			1	3.00		0.40	1.20			
			1	7.95		3.40	27.03			
	New Building Parapet walls:-out side									
	L/walls		1	23.90		0.95	22.71			
			1	8.90		0.95	8.46			
			1	6.45		0.95	6.13			
			1	11.75		0.95	11.16			
	S/walls		1	12.60		0.95	11.97			
			1	4.65		0.95	4.42			
			1	6.45		0.95	6.13			
			1	3.00		0.95	2.85			
	In side &Top View:-L/walls		1	23.40		1.00	23.40			
			1	8.40		1.00	8.40			
			1	5.95		1.00	5.95			
			1	11.25		1.00	11.25			
	S/walls		1	12.15		1.00	12.15			

		2.25	1	8.85		1.80	35.84		
		2.25	1	1.65		1.80	6.68		
		2.25	1	0.30		1.80	1.22		
	Grill	2.25	9	2.70		1.80	98.42		
		2.25	8	2.80		1.80	90.72		
	LBS Nagara Govt School	2.25	1	30.00		1.80	121.50		
							471.70	60.84	28698.30
39	KSRB 15-17.6 : Providing and applying painting two coats (excluding priming coat) on new wood surface and I or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as perspecifications.								
	A)Ground Floor: -	Sqm							
	D1	2.25	3	1.05		2.10	14.88		
	D2	2.25	2	0.90		2.10	8.51		
	D3	2.25	6	0.75		1.80	18.23		
	W	2.25	10	1.20		1.20	32.40		
	w1	2.25	1	1.20		0.75	2.03		
	V1	2.25	3	0.60		0.60	2.43		
	V2	2.25	1	2.40		0.45	2.43		
	V	2.25	2	1.85		0.80	6.66		
		2.25	2	1.05		0.80	3.78		
	Grill	2.25	1	40.00		1.80	162.00		
							253.34	109.89	27839.40
40	B)First Floor: -								
		Sqm							
	D	2.25	3	1.05		2.10	14.88		
	D1	2.25	1	0.90		2.10	4.25		
	W	2.25	11	1.20		1.20	35.64		
	V	2.25	1	3.00		1.80	12.15		
		2.25	1	3.00		1.60	10.80		
		2.25	2	1.85		0.80	6.66		
		2.25	2	1.05		0.80	3.78		
	V1	2.25	1	2.40		0.45	2.43		
	V2	2.25	3	0.60		0.60	2.43		
	Corridor Grill	2.25	1	1.50		1.80	6.08		
		2.25	1	4.50		1.80	18.23		
		2.25	1	8.85		1.80	35.84		
		2.25	1	1.65		1.80	6.68		
		2.25	1	0.30		1.80	1.22		
	Grill	2.25	9	2.70		1.80	98.42		
		2.25	8	2.80		1.80	90.72		
	LBS Nagara Govt School	2.25	1	30.00		1.80	121.50		
							471.70	114.09	53816.40
41	Providing and fixing to wall, ceiling and floor, medium density polyethylene pipes 6.00 kgs/sq cm working pressure of outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor including cost of all materials, labour charges, HOM and testing complete as per specifications.-90 mm dia								
	Waste Water Line Pipe	Mtr	10	3.00			30.00		
							30.00	430.51	12915.30
42	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold watersupply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing ofpipes and fittings with one step CPVC solvent cement & the cost ofcutting chases & making good the same including testing of jointscomplete. (Concealed work including cutting chases and good the wallsetc.). **20mm nominal OD pipes**								
	Toilet Block	Mtr	1	30.00			30.00		
							30.00	266.24	7987.20
43	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold watersupply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing ofpipes and fittings with one step CPVC solvent cement & the cost ofcutting chases & making good the same including testing of jointscomplete. (Concealed work including cutting chases and good the wallsetc.). **25mm nominal OD pipes**								

	Toilet Block	Mtr	1	36.00			36.00			
							36.00	331.95	11950.20	
44	Providing and fixing Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot) size 12.5cms x7.5cms									
		Each	7				7.00			
							7.00	322.88	2260.16	
45	Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia.									
		Each	7				7.00			
							7.00	169.94	1189.58	
46	Providing and fixing in position brass gate valve withC.I wheel of approved quality (screwed end) 25mm nominal boreincluding cost of all materials, labour and HOM of equipments with allleads complete as per specifications.									
		Each	2				2.00			
							2.00	508.68	1017.36	
47	Providing and fixing to wall, ceiling and floor, low densitypolyethylene pipes 6.00 kgf/sq.cm working pressure **140mm outsidediameter** with special flange, compression type fittings, wall clips, makinggood the wall, ceiling and floor, including cost of all materials, labourcharges, HOM of equipments and testing complete as per specifications.									
		Mtr	4	6.00			24.00			
							24.00	629.90	15117.60	
48	KSRB 11-11.8 : Providing and fixing white vitreous china clay, surgeon type wash basin size 660 x 460 with a pair of 15 mm C.P. brass pillar taps with pair of elbow operated levers, C.I./M.S. brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour, curing complete as per specification.									
		Unit	5				5.00			
							5.00	5217.10	26085.50	
49	KSRB 11-7.3 Providing and fixing **white vitreous china cly ,flat back lipped front urinal wash basin** of 430x260x350mm in the range of three 7.5 litres PVC automatic flushing cistern ,C.I /M.S brackets standards flush pipe and C.P brass spreaders ,with brass unions and G.I clamps painting of fittings and brackets ,cuttng and making good the wall and floor wherever required ,including cost of materials ,labour complete as per specifications									
		No.s	3				3.00	6586.80	19760.40	
50	KSRB 13-6.1-1 : Providing and fixing in position brass bib cock of approved quality 25 mm nominal bore including cost of all materials, labour and HOM of equipments with all leads, complete as per specifications.									
		Each	12				12.00			
							12.00	267.37	3208.44	
51	KSRB 11-2 : Providing and fixing white vitreous china clay, water closet Orissa Pattern of size 580 x 440 mm with integral type footrest, 100mm S or P trap, 10 litre low level, P.V.C. flushing cistern (all are approved make) with fittings, C.I./M.S. brackets, 32 mm diameter flush pipe fittings and clamps, overflow arrangements with special and 25 mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour, curing complete as per specification.									
		Pan	7				7.00			
							7.00	4785.93	33498.15	
52	Providing and placing on terrace, polyethylene waterstorage tanks with manhole lid and suitable locking arrangements,making holes of suitable diameter for inlet, outlet and over flow pipes,including cost of all materials, labour, transport charges, HOM ofequipments and testing complete as per specifications.(For 1000 litre capacity) (P.No 96 of I.No.13.78 in PW,P&IWTD SR 2018-19).									
		Nos	1				1.00			
							1.00	7735.58	7735.58	

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53	KSRB 11-15.3: Providing and fixing 453x357mm rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing incluidng cost of materials, labour complete as per specifications.									
		Unit	5				5.00			
							5.00	1287.00	6435.00	
54	Providing and fixing CP brass towel rail 600mm length ,20mm dia with CP brackets ,fixed to wooden cleats with CP brass screws including cost of materials ,labour complete as per specification									
	LadyToilet:-	Each	1				1.00			
	GentToilet:-		1				1.00			
							2.00	763.59	1527.18	
	OTHER WORKS									
55	Earthwork in surface excavation for levelling and lowering the ground manually (Other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up to 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled including breaking of clods and neatly dressed as per specifications.									
	Ground floor:-	Cum								
	Quantity Vide As Per Pre Measurement are prepared in E-Bill						101.05			
							101.05	282.10	28506.21	
56	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 ems. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labourcomplete as per specifications.									
	Ground floor:-	Cum								
	Qty vide item No-55						101.05	227.22	22961.11	
57	**KSRRB M300-53.Construction of Embankment with Material Gravel/Murrum** KSRRB M300-53. Construction of embankment with approved material Gravel /Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications, including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density. MORTH Specification No. 305.									
	Ground floor:-	Cum								
	Quantity Vide As Per Pre Measurement are prepared in E-Bill						23.87			
							23.87	368.20	8788.93	
58	KSRB 2.8: Providing and Filling in foundation with granite / trap broken metal 100mm. And down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. Complete as per specifications.									
	Ground floor:-	Cum								
	Quantity Vide As Per Pre Measurement are prepared in E-Bill						31.13			
							31.13	2751.86	85665.40	
59	KSRB 4-1.2:Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed,machine mixed,concrete laid in layers not exeeding 15cms.thick, well compacted in foundation,including cost of all materials,labour,HOM of machinery,curing complete as per specifications.									
	Ground floor:-	Cum								
	Quantity Vide As Per Pre Measurement are prepared in E-Bill						25.26			
							25.26	5780.16	146006.84	
60	Providing and constructing granite I trap I basalt size stone masonry in foundation with cement mortar, stone hammered dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour,curing complete as per specifications.									
	Ground floor:-	Cum								
	Quantity Vide As Per Pre Measurement are prepared in E-Bill						35.12			
							35.12	5206.90	182866.33	

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68	B) 25MM DIA 2MM thick	Mtr	1	140.00			140.00	73.43	10280.20
69	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting. necessary masonry patch work complete . a) 12"x12"x3" (300x300 76mm)	Each	8				8.00	121.68	973.44
70	b) 10"x7"x3" (1254x178x 76mm)	Each	4				4.00	91.26	365.04
71	c) 8"x6"x3" (203x152x76mm)	Each	6				6.00	76.58	459.48
72	Wring for lighting/power circuit using one of PVC insulated 100v grade. muftis and Copper conductor single core cable in open or consealed system of wing I Group A Materials. a) 1.5 sqmm	Mtr	1	220.00			220.00	19.54	4297.20
73	b) 2.5 sqmm	Mtr	1	180.00			180.00	30.63	5513.40
74	c) 4 sqmm	Mtr	1	120.00			120.00	44.18	5299.20
75	Point wiring using copper wire with switch Supplying and wine., adopting loop system in existing PVC Conduit/casing coping using Copper PVC rivaled multi strand 2x1.5Somm copper wire with a 6Amps flush type SP commit switch shall be fixed on the existing plastic sheet /gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block complete lot each outlet. I. Point wiring using class A materials. a) Short point upto 31,7tr from tapping point to out let via switch.	Each	20				20.00	182.53	3650.60
76	Supplying 6A flush/projected type socket and a 6 amps flush protected type SP switch either surface/flush mounting in a existing gang box or in a 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wires as required. b) 6Amps 3/5 way.	Each	10				10.00	157.35	1573.50
77	Supplying and fixing hylum brand hand plastic sheet 3mm thick with necessary niches for fixing switches. regulators etc , and fixing on existing wood or metal box using N.F.screws.	Sqcm	1	4000.00			4000.00	0.23	920.00
78	Supplying, fixing. wiring. earth electrode for grounding conduits. I C. cutouts and other r requirements on the meter board using 40mm du 1.90 thick GL pipe 25 rob long buried in a pit. . .The pa should be filled with equal proportion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the pipe to the conduit etc. is to be established through Gl wire of size as per ISI specification 7.3.3 of IS 732 using 12mm dia bolts, nuts. washers and checkouts etc. the pipe shall have 16 through holes of 122mm dia.	Each	2				2.00	2860.62	5721.24
79	Supplying box type suitable for 28W T5 single / twin Lamp 8 suspension mounted luminaire 8 optical reflector. Prewired with HF electronic Ballast. push fit type tamp holders holders 8 main connectors. Channel Cover shag be made of CRCA MS Sheet and finishing is done with stove enameled white with end caps made of engineering plastic 1x4' – 28 watts.	Each	24				24.00	1038.51	24924.24
80	Fixing all types and as capacities fluorescent/ false ceiling/ spot light/ CFL fitting indoor on the wan ceiling/ rafters/ girders using 23/ 0.0076 twin twisted PVC insulated wires, required nos of round blocks and camps. A) On wall/ ceiling/ rafter/ girders.	Each	24				24.00	102.80	2467.20
81	Supplying capacitor type ceiling fan complete with down rod lades. shackle. canopies etc.. for operation on 230 volts, 50 cycles Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system I 48 Sweep (1200mm).a) Regular model (Khaitan. Crompton Cleaves. Orient. Ploar, Bajaj. Usha Havells.Almonard).	Each	8				8.00	2492.42	19939.36
82	Fixing a ceiling /wall mounting fan of all capacities and as types to the existing S hook together with supplying and fixing a 5 ampers ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring completely.	Each	10				10.00	145.81	1458.10

ಕರ್ನಾಟಕ ಕಾರ್ಯನಿರ್ವಹಣಾ ಅಭಿಯಂತರರು
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83	Supplying and fixing of Procelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washers etc., complete a)63 Amps.	Each	5				5.00	245.47	1227.35
84	Supplying of 1.1 KV LT UG cable having aluminium conductor PVC extruded inner sheathed,galvanized, steel strip (except 2CX10Sqmm wire armoured) confirming to IS-3975:1990 (No. of strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. a) 4 core 16 sqmm.	Mtr	1	150.00			150.00	147.28	22092.00
85	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe on wall / on pole as required. In existing trench / duct. a) 6 sqm to 16 sqmm.	Mtr	1	120.00			120.00	11.33	1359.60
86	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete. b) C.C. cutting	Each	10				10.00	222.39	2223.90
87	Supplying and fixing miniature circuit breakes on existing C8 distribution boards using necessary ruing materials and wiring complete as -1-d-red ,2. Group 'A'. b) 40-63Amps SP	Each	5				5.00	710.17	3550.85
88	d) 40-63Amps DP, Group A	Each	10				10.00	1146.56	11465.60
89	Supplying and flung of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm on pole/wall/drain crossing with necessary cclamping arrangements for UG cable of 1.1 KV class. a) 40mm	Mtr	1	4.00			4.00	361.91	1447.64
90	Supplying & fixing L.T.cast von pot heads suitable for 1 1 KV class UG cable filled will necessary bitumen/insulating compound complete with manna, damps. bolts, nuts and washers ect. a) 16 sqmm	Each	2				2.00	293.72	587.44
91	Supply and fixing of backlite D.P/Socket/switch with /without neon indicator over existing wood board or flush mounting in plastic plates/ nitches 1. Using group 'A' material. a)16Amps Combined switch and socket with indication	Each	8				8.00	203.51	1628.08
92	Fabricating supplying and mounting MS box made out SWG sealable ea floor / wall mounting, fully weather proof with provision for bolter heat dissipation . provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with 'necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished ii-r approved colour enameled metal pan etc.. complete. b)16 SWG	Each	1	4000.00			4000.00	0.35	1400.00
93	Supplying and fixing regular MCB distribution boards on wall/woodboard / flush mounting using reputed calmps. bead, nuts etc.. with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coaled painting etc.. complete. II Double Door. .Group A. a) 12Way TP &N	Each	4				4.00	5389.76	21559.04
94	Supplying exhaust fan of 1440 RPM of 300mm (12") size was bracket blades complete for light duty suitable to operate on 230V 50Hz. AC.	Each	2				2.00	1783.30	3566.60
95	Fixing one exhaust fan in the nitch already left in the wall with bolts and nuts and 5 amps. ceiling rose with sufficient length of 23/ 0.0076 inch PVC insulated twin core wire.	Each	2				2.00	432.19	864.38
96	Supplying and ruing cast Aluminium round or oblong type but head fitting with GI wire guard, glass cover with 15Watts 230V CFL lamp.	Each	2				2.00	998.68	1997.30

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97	Supply of recess mounted rolling type LED square or round Down light 12 watts with 4/6W GU 10 LED Lamp Rib Fabricated from Die cast aluminum with white powder coated prewired to mains connector with suitable driver & having swiveling unit of aluminum die cast eye ball & LED Lamp position retained by circular wire spring 5 years Warranty against any manufacturing defect working under standard electrical condition.								
		Each	20				20.00	1959.53	39190.60
								Total RS	8827228.84
								Add GST @ 12%	1059267.46
								Grand Total RS	9886496.30

CERTIFICATE

1 Certified that the above work done is satisfactory completed to work.

2 Certified that the there is no debries have been cleared to site

Agency Signature

Assistant Engineer
Ward No-04

C&Fc

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Assistant Executive Engineer
Yelahanka Satellite Sub Division

Bruhat Bengaluru
Mahanagara Palike

PRE-MEASUREMENT

BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of Work:-Construction Of Additional Class Rooms To Government School At 'B' Sector in Ward No-04

Agency:-Sri.T.S.Kothanda Raju

MEASUREMENT SHEET Bill N0:-Final Bill

Pre-Measurements Taken On:- 02/02/2022

S.NO	Description of Item's	Unit	No	Measurements L	B	D	Qty	Remarks
3	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and I or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. and Lift charges for steel of all diameters for additional floors over ground floor per floor height of 3.5 m. or part there of cost of labour, complete as per specifications.- .do-TMT bars Fe 500							
	Columns							
	First Floor:-	Tonnes						
	25 mm Dia Rods							
	C1	10	3	3.60	108.00			
	C2	8	2	3.60	57.60			
	C3	6	5	3.60	108.00			
	CF1	10	2	3.60	72.00			
	CF2	10	1	3.60	36.00			
		6	1	3.60	21.60			
	CF3	6	2	3.60	43.20			
	CF4	6	2	3.60	43.20			
					489.60	3.85	1884.96	
	20 mm Dia Rods							
	C4	6	3	3.60	64.80			
					64.80	2.47	160.06	
	Stirrups							
	8 mm Dia Rods(0.23c/c)							
	C1	8	3	1.50	36.00			
		14	3	1.30	54.60			
	C2	14	2	1.30	36.40			
	C3	14	5	1.30	91.00			
	CF1	8	3	1.50	24.00			
		14	2	1.30	36.40			
	CF2	8	1	1.50	12.00			
		14	1	1.30	18.20			
	CF2	14	1	1.30	18.20			
	CF3	14	2	1.30	36.40			
	CF4	14	2	1.30	36.40			
	Lintel :-				399.60	0.39	155.84	
	Main Rods 10mm Dia (0.10c/c):							
	Main walls,L/Walls	6	2	24.20	290.40			
		6	1	7.70	46.20			
		6	1	6.75	40.50			
	S/Walls	6	7	6.70	281.40			
		6	2	6.65	79.80			
		6	1	3.30	19.80			
	Partition Wall:-L/walls	4	1	4.20	16.80			
	S/Walls	2	2	1.90	7.60			
					782.50	0.62	485.15	
	Stirrup,s 8mm Dia (0.15c/c)							
	Main walls,L/Walls	148	2	0.75	222.00			
		42	1	0.75	31.50			
		35	1	0.75	26.25			
	S/Walls	41	2	0.75	215.35			

	Distrubution Rods 8mm Dia (20c/c)							
	Alternative Crank Rods	16	1	13.20	211.20			
	Tension Rods	16	2	4.60	147.20			
	Stright Rods:-Bottom Rods	16	2	12.80	409.60			
	Top Rods	15	2	12.80	384.00			
	Alternative Crank Rods	15	1	15.20	228.00			
	Tension Rods	15	2	4.20	126.00			
	Stright Rods:-Bottom Rods	27	1	15.20	410.40			
		15	1	11.80	177.00			
	Top Rods	26	1	15.20	395.20			
		14	1	11.80	165.20			
					2653.80	0.39	1034.98	
							9135.07	
						Total Quantity	9.14	

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Construction Of Additional Class Rooms To Government School At 'B' Sector in Ward No-04

Agency:-Sri.T.S.Kothanda Raju

MEASUREMENT SHEET Bill N0:-Final Bill

Pre-Measurements Taken On:- 08/02/2022

S.NO	Description of Item's	Unit	No	Measurements L	B	D	Qty	Remarks
5	Providing and removing centering, shuttering, strutting,propping etc., and removal of form work for columns, pillars, postand struts, square I rectangular/ polygon in plan including cost of allmaterials, labour complete as per specifications.							
	First Floor	Sqm						
	Columns Up to Lintel Level:-C1	2	3	0.60		2.10	7.56	
		2	3	0.30		2.10	3.78	
	C2	2	2	0.45		2.10	3.78	
		2	3	0.30		2.10	2.52	
	C3	2	5	0.45		2.10	9.45	
		2	5	0.30		2.10	6.30	
	C4	2	3	0.45		2.10	5.67	
		2	3	0.30		2.10	3.78	
	CF1	2	2	0.60		2.10	5.04	
		2	2	0.30		2.10	2.52	
	CF2	2	1	0.60		2.10	2.52	
		2	1	0.30		2.10	1.26	
		2	1	0.45		2.10	1.89	
		2	1	0.30		2.10	1.26	
	CF3	2	2	0.45		2.10	3.78	
		2	2	0.30		2.10	2.52	
	CF4	2	2	0.45		2.10	3.78	
		2	2	0.30		2.10	2.52	
	Columns Up to Beam Level:-C1	2	3	0.60		0.25	0.90	
		2	3	0.30		0.25	0.45	
	C2	2	2	0.45		0.25	0.45	
		2	2	0.30		0.25	0.30	
	C3	2	5	0.45		0.25	1.13	
		2	5	0.30		0.25	0.75	
	C4	2	3	0.45		0.25	0.68	
		2	3	0.30		0.25	0.45	
	CF1	2	2	0.60		0.25	0.60	
		2	2	0.30		0.25	0.30	
	CF2	2	1	0.60		0.25	0.30	
		2	1	0.30		0.25	0.15	
		2	1	0.45		0.25	0.23	
		2	1	0.30		0.25	0.15	
	CF3	2	2	0.45		0.25	0.45	
		2	2	0.30		0.25	0.30	
	CF4	2	2	0.45		0.25	0.45	
		2	2	0.30		0.25	0.30	
	Columns Up to Parapet Level:-C1	2	3	0.60		0.80	2.88	
		2	3	0.30		0.80	1.44	
	C2	2	2	0.45		0.80	1.44	
		2	2	0.30		0.80	0.96	
	C3	2	5	0.45		0.80	3.60	
		2	5	0.30		0.80	2.40	
	C4	2	3	0.45		0.80	2.16	
		2	3	0.30		0.80	1.44	
	CF1	2	2	0.60		0.80	1.92	
		2	2	0.30		0.80	0.96	
	CF2	2	1	0.60		0.80	0.96	
		2	1	0.30		0.80	0.48	
		2	1	0.45		0.80	0.72	
	4	2	1	0.30		0.80	0.48	

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	CF3	2	2	0.45		0.80	1.44
		2	2	0.30		0.80	0.96
	CF4	2	2	0.45		0.80	1.44
		2	2	0.30		0.80	0.96
							104.90

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ-ಉಪವಿಭಾಗ
ಜೆ.ಜೆ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Construction Of Additional Class Rooms To Government School At 'B' Sector in Ward No-04

Agency:-Sri.T.S.Kothanda Raju

MEASUREMENT SHEET Bill NO:-Final Bill

Pre-Measurements Taken On:- 08/02/2022

S.NO	Description of item's	Unit	No	Measurements L	B	D	Qty	Remarks
6	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labourcompleteas per specifications.							
	First Floor	Sqm						
	Lintel beam:-L/Walls	2	2	23.90		0.20	19.12	
		2	1	7.40		0.20	2.96	
		2	1	6.00		0.20	2.40	
	S/Walls	2	6	6.00		0.20	14.40	
		2	2	5.95		0.20	4.76	
		2	2	3.00		0.20	2.40	

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
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BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Construction Of Additional Class Rooms To Government School At 'B' Sector in Ward No-04

Agency:-Sri.T.S.Kothanda Raju

MEASUREMENT SHEET Bill N0:-Final Bill

Pre-Measurements Taken On:- 18/02/2022

S.NO	Description of Item's	Unit	No	Measurements L	B	D	Qty	Remarks
8	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labourcompleteas per specifications.							
	First Floor	Sqm						
	Tie beam:-Horizontal Axies,B1-B4	2	4	12.60		0.45	45.36	
	B5-B6	2	2	7.95		0.45	14.31	
	B7	2	1	6.45		0.45	5.81	
	B8	2	1	9.45		0.45	8.51	
	B9	2	4	6.45		0.45	23.22	
	Vertical Axies,B10	2	1	2.45		0.30	1.47	
		2	1	4.95		0.30	2.97	
	B11	2	1	3.75		0.30	2.25	
		2	1	1.30		0.30	0.78	
		2	2	3.25		0.30	3.90	
	B12	2	1	2.45		0.30	1.47	
		2	1	4.95		0.30	2.97	
		2	1	3.00		0.30	1.80	
		2	1	3.75		0.30	2.25	
		2	1	1.30		0.30	0.78	
		2	2	3.25		0.30	3.90	
	B13	2	1	11.75		0.30	7.05	
		2	1	3.00		0.30	1.80	
	B14	2	1	1.30		0.30	0.78	
		2	4	3.25		0.30	7.80	
							139.17	

18/2/2022

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18/2/2022

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Construction Of Additional Class Rooms To Government School At 'B' Sector in Ward No-04

Agency:-Sri.T.S.Kothanda Raju

MEASUREMENT SHEET Bill N0:-Final Bill

Pre-Measurements Taken On:- 18/02/2022

S.NO	Description of Item's	Unit	No	Measurements L	B	D	Qty	Remarks
9	Providing and removing centering, shuttering. Strutting, proping etc. and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200mm including cost of all materials, labour complete as perspecifications.							
	First Floor	Sqm						
	ROOF:-Class Room1		1	5.95	7.00		41.65	
	Class Room2		1	6.05	7.00		42.35	
	Corridor		1	6.05	1.30		7.87	
	Class Room3		1	6.05	7.55		45.68	
	Borewell Room		1	6.00	3.00		18.00	
	Staire case		1	6.05	2.95		17.85	
	Front Corridor		1	9.05	1.50		13.58	
			1	4.65	1.50		6.98	
	Toilet Room		1	3.85	6.00		23.10	
	Staire case 1st flight		1	3.20	1.50		4.80	
	Landing		1	3.00	1.50		4.50	
	2nd flight		1	3.20	1.50		4.80	
	Alround Out Side		2	23.60		0.20	9.44	
			2	12.60		0.20	5.04	
			2	1.50		0.20	0.60	
							246.22	

18/2/2022

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Construction Of Additional Class Rooms To Government School At 'B' Sector in Ward No-04

Agency:-Sri.T.S.Kothanda Raju

MEASUREMENT SHEET Bill NO:-Final Bill

Pre-Measurements Taken On:- 19/02/2022

S.NO	Description of Item's	Unit	No	Measurements L	B	D	Qty	Remarks
	OTHER WORKS							
55	Earthwork in surface excavation for levelling and lowering the ground manually (Other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up to 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled including breaking of clods and neatly dressed as per specifications.No.KBS 2.1 (a)/2.3.1 KSRB 2-1.1:-do- ordinary soil							
	Ground floor:-	Cum						
	Flagging Concrete:-Front		1	7.40	1.60	0.25	2.96	
			1	10.50	3.15	0.25	8.27	
			1	6.90	2.70	0.25	4.66	
			1	17.40	0.90	0.25	3.92	
	Right		1	9.90	1.00	0.25	2.48	
	Back		1	26.20	0.90	0.25	5.90	
	Left		1	6.30	1.35	0.25	2.13	
			1	9.00	0.90	0.25	2.03	
	Front Foundation		1	17.50	0.90	0.45	[illegible]	
	Culvert		1	6.20	2.10	1.00	[illegible]	
	Compound Wall		1	40.00	0.90	1.35	48.6 [illegible]	
							101.03	

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Construction Of Additional Class Rooms To Government School At 'B' Sector in Ward No-04

Agency:-Sri.T.S.Kothanda Raju

MEASUREMENT SHEET Bill N0:-Final Bill

Pre-Measurements Taken On:- 22/02/2022

S.NO	Description of item's	Unit	No	Measurements L	B	D	Qty	Remarks
57	**KSRRB M300-53.Construction of Embankment with Material Gravel/Murrum** KSRRB M300-53. Construction of embankment with approved material Gravel /Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications, including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density. MORTH Specification No. 305.							
	Ground floor:-	Cum						
	Flagging Concrete:-Front		1	7.40	1.60	0.20	2.37	
			1	10.50	3.15	0.20	6.62	
			1	6.90	2.70	0.20	3.73	
			1	17.45	0.90	0.20	3.15	
	Right		1	9.90	1.00	0.20	1.98	
	Back		1	26.20	0.90	0.15	3.54	
	Left		1	6.30	1.35	0.15	1.28	
			1	9.00	0.90	0.15	1.22	
							23.88	

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Construction Of Additional Class Rooms To Government School At 'B' Sector in Ward No-04

Agency:-Sri.T.S.Kothanda Raju

MEASUREMENT SHEET Bill N0:-Final Bill

Pre-Measurements Taken On:- 02/03/2022

S.NO	Description of Item's	Unit	No	Measurements L	B	D	Qty	Remarks
59	KSRB 4-1.2:Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed,machine mixed,concrete laid in layers not exeeding 15cms.thick, well compacted in foundation,including cost of all materials,labour,HOM of machinery,curing complete as per specifications.							
	Ground floor:-	Cum						
	Flagging Concrete:-Front		1	7.40	1.60	0.15	1.78	
			1	10.50	3.15	0.15	4.96	
			1	6.90	2.70	0.15	2.79	
			1	17.40	0.90	0.15	2.36	
	Right		1	9.90	1.00	0.15	1.49	
	Back		1	26.20	0.90	0.15	3.54	
	Left		1	6.30	1.35	0.15	1.28	
			1	9.00	0.90	0.15	1.22	
	Culvert		1	6.20	1.65	0.15		
	Compound Wall		1	40.00	0.90	0.12		
							25.35	

14/3/2022

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Construction Of Additional Class Rooms To Government School At 'B' Sector in Ward No-04

Agency:-Sri T.S.Kothanda Raju

MEASUREMENT SHEET Bill N0:-Final Bill

Pre-Measurements Taken On:- 12/03/2022

S.NO	Description of Item's	Unit	No	Measurements L	B	D	Qty	Remarks
65	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per specifications.							
	Culvert:-Main Rods 12mm Dia(.12c/c)	Tonne						
			53	3.60	190.80			
			52	3.30	171.60			
	Pre cast slabs		60	3.60	216.00			
					578.40	0.89	514.78	
	Distrubution Rods 10mm Dia(0.15c/c)							
			20	6.20	124.00			
			18	6.20	111.60			
	Pre cast slabs stirrupps 10 mm dia(0.20 c/c)		80	1.90	152.00			
					387.60	0.62	240.31	

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BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Construction Of Additional Class Rooms To Government School At 'B' Sector in Ward No-04

Agency:-Sri.T.S.Kothanda Raju

MEASUREMENT SHEET Bill N0:-Final Bill

Pre-Measurements Taken On:- 14/02/2022

S.NO	Description of item's	Unit	No	Measurements L	B	D	Qty	Remarks
66	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters, bittresses,buttresses plinth and string course including cost of all materials,labour complete asperspecificationS.							
	In Side Walls	Sqm	2	6.20		0.80	9.92	
	Outside Walls		2	6.20		1.10	13.64	
			2	1.50		0.30	0.90	
	Precast Slabs Sides		20	1.50		0.25	7.50	
			20	0.60		0.25	3.00	
	Bottom Portion		10	1.50	0.60		9.00	
							43.96	
							39.96	

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